

Release notes for ENDF/B Development n-092_U_240
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=9243, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=9243, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      280 TO      405
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=9243, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=9243, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      280
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 1, MT=452 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=9243, MF= 1, MT=452
SECTION 1/452 NOT IN DIRECTORY      RECORD NUMBER      406
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 1, MT=455 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=9243, MF= 1, MT=455
SECTION 1/455 NOT IN DIRECTORY      RECORD NUMBER      413
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 1, MT=456 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=9243, MF= 1, MT=456
SECTION 1/456 NOT IN DIRECTORY      RECORD NUMBER      421
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 1, MT=458 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=9243, MF= 1, MT=458
SECTION 1/458 NOT IN DIRECTORY      RECORD NUMBER      427
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=9243, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      434
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 1 (0): Directory (b)

- | | |
|--|-------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 1 | |
| SECTION 3/ 1 NOT IN DIRECTORY | RECORD NUMBER 534 |
8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 2 (0): Directory (b)
- | | |
|--|-------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 2 | |
| SECTION 3/ 2 NOT IN DIRECTORY | RECORD NUMBER 648 |
9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 3 (0): Directory (b)
- | | |
|--|-------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 3 | |
| SECTION 3/ 3 NOT IN DIRECTORY | RECORD NUMBER 761 |
10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 4 (0): Directory (b)
- | | |
|--|-------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 4 | |
| SECTION 3/ 4 NOT IN DIRECTORY | RECORD NUMBER 875 |
11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 16 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 16 | |
| SECTION 3/ 16 NOT IN DIRECTORY | RECORD NUMBER 956 |
12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 17 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 17 | |
| SECTION 3/ 17 NOT IN DIRECTORY | RECORD NUMBER 997 |
13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 18 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 18 | |
| SECTION 3/ 18 NOT IN DIRECTORY | RECORD NUMBER 1025 |
14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 19 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 19 | |
| SECTION 3/ 19 NOT IN DIRECTORY | RECORD NUMBER 1113 |
15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 20 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 20 | RECORD NUMBER | 1201 |
| SECTION 3/ 20 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 21 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 21 | RECORD NUMBER | 1267 |
| SECTION 3/ 21 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 37 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 37 | RECORD NUMBER | 1295 |
| SECTION 3/ 37 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 38 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 38 | RECORD NUMBER | 1312 |
| SECTION 3/ 38 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 51 | RECORD NUMBER | 1333 |
| SECTION 3/ 51 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 52 | RECORD NUMBER | 1414 |
| SECTION 3/ 52 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 53 | RECORD NUMBER | 1489 |
| SECTION 3/ 53 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 54 | RECORD NUMBER | 1561 |
| SECTION 3/ 54 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 55 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 55 | RECORD NUMBER | 1630 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 56 | RECORD NUMBER | 1697 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 57 | RECORD NUMBER | 1764 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 58 | RECORD NUMBER | 1830 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 59 | RECORD NUMBER | 1895 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 60 | RECORD NUMBER | 1959 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 61 | RECORD NUMBER | 2023 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 62 | RECORD NUMBER | 2086 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 63 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 63 | RECORD NUMBER | 2149 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 64 | RECORD NUMBER | 2212 |
| SECTION 3/ 64 NOT IN DIRECTORY | | |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 65 | RECORD NUMBER | 2274 |
| SECTION 3/ 65 NOT IN DIRECTORY | | |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 66 | RECORD NUMBER | 2336 |
| SECTION 3/ 66 NOT IN DIRECTORY | | |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 67 | RECORD NUMBER | 2397 |
| SECTION 3/ 67 NOT IN DIRECTORY | | |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 68 | RECORD NUMBER | 2458 |
| SECTION 3/ 68 NOT IN DIRECTORY | | |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 69 | RECORD NUMBER | 2518 |
| SECTION 3/ 69 NOT IN DIRECTORY | | |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 70 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 70 | RECORD NUMBER | 2578 |
| SECTION 3/ 70 NOT IN DIRECTORY | | |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 71 (0): Directory (b)

- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 71 | |
| SECTION 3/ 71 NOT IN DIRECTORY | RECORD NUMBER 2638 |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 72 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 72 | |
| SECTION 3/ 72 NOT IN DIRECTORY | RECORD NUMBER 2697 |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 73 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 73 | |
| SECTION 3/ 73 NOT IN DIRECTORY | RECORD NUMBER 2755 |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 74 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 74 | |
| SECTION 3/ 74 NOT IN DIRECTORY | RECORD NUMBER 2812 |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 75 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 75 | |
| SECTION 3/ 75 NOT IN DIRECTORY | RECORD NUMBER 2868 |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 76 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 76 | |
| SECTION 3/ 76 NOT IN DIRECTORY | RECORD NUMBER 2922 |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 77 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 77 | |
| SECTION 3/ 77 NOT IN DIRECTORY | RECORD NUMBER 2975 |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 78 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 78 | |
| SECTION 3/ 78 NOT IN DIRECTORY | RECORD NUMBER 3027 |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 79 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 79 | RECORD NUMBER | 3078 |
| SECTION 3/ 79 NOT IN DIRECTORY | | |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 80 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 80 | RECORD NUMBER | 3128 |
| SECTION 3/ 80 NOT IN DIRECTORY | | |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 81 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 81 | RECORD NUMBER | 3177 |
| SECTION 3/ 81 NOT IN DIRECTORY | | |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 82 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 82 | RECORD NUMBER | 3225 |
| SECTION 3/ 82 NOT IN DIRECTORY | | |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 83 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 83 | RECORD NUMBER | 3272 |
| SECTION 3/ 83 NOT IN DIRECTORY | | |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 84 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 84 | RECORD NUMBER | 3318 |
| SECTION 3/ 84 NOT IN DIRECTORY | | |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 85 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 85 | RECORD NUMBER | 3362 |
| SECTION 3/ 85 NOT IN DIRECTORY | | |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 86 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 86 | RECORD NUMBER | 3405 |
| SECTION 3/ 86 NOT IN DIRECTORY | | |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 87 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 87 | RECORD NUMBER | 3448 |
| SECTION 3/ 87 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 88 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 88 | RECORD NUMBER | 3490 |
| SECTION 3/ 88 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 89 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 89 | RECORD NUMBER | 3531 |
| SECTION 3/ 89 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 90 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 90 | RECORD NUMBER | 3572 |
| SECTION 3/ 90 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT= 91 | RECORD NUMBER | 3612 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 3, MT=102 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 3, MT=102 | RECORD NUMBER | 3671 |
| SECTION 3/102 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 2 (0): Directory (b)
- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 2 | RECORD NUMBER | 3759 |
| SECTION 4/ 2 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 18 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 18 | RECORD NUMBER | 4345 |
| SECTION 4/ 18 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 19 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 19 | RECORD NUMBER | 4348 |
| SECTION 4/ 19 NOT IN DIRECTORY | | |
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 20 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 20 | RECORD NUMBER | 4351 |
| SECTION 4/ 20 NOT IN DIRECTORY | | |
65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 21 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 21 | RECORD NUMBER | 4354 |
| SECTION 4/ 21 NOT IN DIRECTORY | | |
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 38 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 38 | RECORD NUMBER | 4357 |
| SECTION 4/ 38 NOT IN DIRECTORY | | |
67. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 51 | RECORD NUMBER | 4360 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 52 | RECORD NUMBER | 4534 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
69. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 53 | RECORD NUMBER | 4703 |
| SECTION 4/ 53 NOT IN DIRECTORY | | |
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 54 | RECORD NUMBER | 4868 |
| SECTION 4/ 54 NOT IN DIRECTORY | | |
71. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 55 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 55 | RECORD NUMBER | 5026 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 56 | RECORD NUMBER | 5105 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
73. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 57 | RECORD NUMBER | 5182 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
74. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 58 | RECORD NUMBER | 5262 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
75. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 59 | RECORD NUMBER | 5337 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
76. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 60 | RECORD NUMBER | 5407 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
77. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 61 | RECORD NUMBER | 5479 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
78. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 62 | RECORD NUMBER | 5550 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
79. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 63 (0): Directory (b)

- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 63 | |
| SECTION 4/ 63 NOT IN DIRECTORY | RECORD NUMBER 5621 |
80. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 64 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 64 | |
| SECTION 4/ 64 NOT IN DIRECTORY | RECORD NUMBER 5693 |
81. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 65 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 65 | |
| SECTION 4/ 65 NOT IN DIRECTORY | RECORD NUMBER 5763 |
82. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 66 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 66 | |
| SECTION 4/ 66 NOT IN DIRECTORY | RECORD NUMBER 5833 |
83. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 67 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 67 | |
| SECTION 4/ 67 NOT IN DIRECTORY | RECORD NUMBER 5903 |
84. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 68 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 68 | |
| SECTION 4/ 68 NOT IN DIRECTORY | RECORD NUMBER 5973 |
85. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 69 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 69 | |
| SECTION 4/ 69 NOT IN DIRECTORY | RECORD NUMBER 6043 |
86. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 70 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 70 | |
| SECTION 4/ 70 NOT IN DIRECTORY | RECORD NUMBER 6113 |
87. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 71 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 71 | |
| | SECTION 4/ 71 NOT IN DIRECTORY | RECORD NUMBER 6180 |
88. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 72 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 72 | |
| | SECTION 4/ 72 NOT IN DIRECTORY | RECORD NUMBER 6250 |
89. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 73 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 73 | |
| | SECTION 4/ 73 NOT IN DIRECTORY | RECORD NUMBER 6340 |
90. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 74 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 74 | |
| | SECTION 4/ 74 NOT IN DIRECTORY | RECORD NUMBER 6413 |
91. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 75 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 75 | |
| | SECTION 4/ 75 NOT IN DIRECTORY | RECORD NUMBER 6484 |
92. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 76 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 76 | |
| | SECTION 4/ 76 NOT IN DIRECTORY | RECORD NUMBER 6553 |
93. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 77 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 77 | |
| | SECTION 4/ 77 NOT IN DIRECTORY | RECORD NUMBER 6620 |
94. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 78 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 78 | |
| | SECTION 4/ 78 NOT IN DIRECTORY | RECORD NUMBER 6687 |
95. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 79 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 79 | |
| | SECTION 4/ 79 NOT IN DIRECTORY | RECORD NUMBER 6752 |
96. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 80 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 80 | |
| | SECTION 4/ 80 NOT IN DIRECTORY | RECORD NUMBER 6817 |
97. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 81 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 81 | |
| | SECTION 4/ 81 NOT IN DIRECTORY | RECORD NUMBER 6882 |
98. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 82 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 82 | |
| | SECTION 4/ 82 NOT IN DIRECTORY | RECORD NUMBER 6947 |
99. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 83 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 83 | |
| | SECTION 4/ 83 NOT IN DIRECTORY | RECORD NUMBER 7010 |
100. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 84 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 84 | |
| | SECTION 4/ 84 NOT IN DIRECTORY | RECORD NUMBER 7073 |
101. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 85 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 85 | |
| | SECTION 4/ 85 NOT IN DIRECTORY | RECORD NUMBER 7134 |
102. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 86 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 86 | |
| | SECTION 4/ 86 NOT IN DIRECTORY | RECORD NUMBER 7195 |
103. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 87 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 87 | |
| | SECTION 4/ 87 NOT IN DIRECTORY | RECORD NUMBER 7254 |
104. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 88 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 88 | |
| | SECTION 4/ 88 NOT IN DIRECTORY | RECORD NUMBER 7313 |
105. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 89 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 89 | |
| | SECTION 4/ 89 NOT IN DIRECTORY | RECORD NUMBER 7372 |
106. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 4, MT= 90 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 4, MT= 90 | |
| | SECTION 4/ 90 NOT IN DIRECTORY | RECORD NUMBER 7431 |
107. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 5, MT= 18 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 5, MT= 18 | |
| | SECTION 5/ 18 NOT IN DIRECTORY | RECORD NUMBER 7491 |
108. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 5, MT= 19 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 5, MT= 19 | |
| | SECTION 5/ 19 NOT IN DIRECTORY | RECORD NUMBER 7500 |
109. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 5, MT= 20 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 5, MT= 20 | |
| | SECTION 5/ 20 NOT IN DIRECTORY | RECORD NUMBER 7509 |
110. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 5, MT= 21 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9243, MF= 5, MT= 21 | |
| | SECTION 5/ 21 NOT IN DIRECTORY | RECORD NUMBER 7518 |
111. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 5, MT= 38 (0): Directory (b)

- ERROR(S) FOUND IN MAT=9243, MF= 5, MT= 38
SECTION 5/ 38 NOT IN DIRECTORY RECORD NUMBER 7527
112. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 5, MT=455 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9243, MF= 5, MT=455
SECTION 5/455 NOT IN DIRECTORY RECORD NUMBER 7535
113. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 6, MT= 16 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9243, MF= 6, MT= 16
SECTION 6/ 16 NOT IN DIRECTORY RECORD NUMBER 8126
114. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 6, MT= 17 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9243, MF= 6, MT= 17
SECTION 6/ 17 NOT IN DIRECTORY RECORD NUMBER 9476
115. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 6, MT= 37 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9243, MF= 6, MT= 37
SECTION 6/ 37 NOT IN DIRECTORY RECORD NUMBER 10218
116. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF= 6, MT= 91 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9243, MF= 6, MT= 91
SECTION 6/ 91 NOT IN DIRECTORY RECORD NUMBER 10514
117. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF=12, MT= 18 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9243, MF=12, MT= 18
SECTION 12/ 18 NOT IN DIRECTORY RECORD NUMBER 13168
118. Missing a gamma spectrum for continuum of gammas
MAT=9243, MF=12, MT= 18 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=9243, MF=12, MT= 18
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
119. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF=12, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9243, MF=12, MT=102
SECTION 12/102 NOT IN DIRECTORY RECORD NUMBER 13173

120. Missing a gamma spectrum for continuum of gammas
MAT=9243, MF=12, MT=102 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=9243, MF=12, MT=102
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
121. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF=13, MT= 3 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9243, MF=13, MT= 3
SECTION 13/ 3 NOT IN DIRECTORY RECORD NUMBER 13192
122. Missing a gamma spectrum for continuum of gammas
MAT=9243, MF=13, MT= 3 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=9243, MF=13, MT= 3
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
123. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF=14, MT= 3 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9243, MF=14, MT= 3
SECTION 14/ 3 NOT IN DIRECTORY RECORD NUMBER 13234
124. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF=14, MT= 18 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9243, MF=14, MT= 18
SECTION 14/ 18 NOT IN DIRECTORY RECORD NUMBER 13236
125. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF=14, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9243, MF=14, MT=102
SECTION 14/102 NOT IN DIRECTORY RECORD NUMBER 13238
126. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF=15, MT= 3 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9243, MF=15, MT= 3
SECTION 15/ 3 NOT IN DIRECTORY RECORD NUMBER 13241
127. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF=15, MT= 18 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9243, MF=15, MT= 18
SECTION 15/ 18 NOT IN DIRECTORY RECORD NUMBER 13541
128. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9243, MF=15, MT=102 (0): Directory (b)

• psyche Errors:

1. A probability distribution is negative. This is bad.
FILE 4 / SECTION 52 / DISTRIBUTION IS NEGATIVE / FROM -9.9688E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.0496E-04 (0): Neg. prob.

```
FILE 4
SECTION 52
DISTRIBUTION IS NEGATIVE
FROM -9.9688E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.0496E-04
```

• groupie Errors:

1. Very small elastic cross section found
0: Small elastic

```
Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)
-----
ENDF/B Input and Output Data Filenames
ENDFB.IN
ENDFB.OUT
... [97 more lines]
```

• fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevelBreitWigner (Error # 0): missingResonanceChannel

WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"

2. Potential scattering hasn't converted, you need more L's!
resonances / resolved (Error # 1): potentialScatteringNotConverged

WARNING: Potential scattering hasn't converged by L=0 at E=986.0 eV, xs[0]/xs[0]=100.0% > 0.1%

3. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.10%

• fudge-4.0 Errors:

1. Found a negative probability
reaction label 1: n + U240-e1 / Product: n / Distribution: / angularTwoBody - XYs2d: (Error # 0): Negative prob.

WARNING: Negative probabilities encountered. Incident energy: 2.6e7 eV, worst case: -0.0287399277741
WARNING: Negative probabilities encountered. Incident energy: 2.8e7 eV, worst case: -0.052783435926
WARNING: Negative probabilities encountered. Incident energy: 3.e7 eV, worst case: -0.0258790995396

2. Found a negative probability
reaction label 2: n + U240-e2 / Product: n / Distribution: / angularTwoBody - XYs2d: (Error # 0): Negative prob.

WARNING: Negative probabilities encountered. Incident energy: 3.e7 eV, worst case: -0.07075278625

3. Calculated and tabulated Q values disagree.
reaction label 42: n[multiplicity:'2'] + U239 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6201131.405151367 eV vs -5.9308e6 eV!

4. Energy range of data set does not match cross section range
reaction label 42: n[multiplicity:'2'] + U239 / Product: U239 / Distribution: / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (5955753.0 -> 30000000.0) vs (5955720.0 -> 30000000.0)

5. Calculated and tabulated Q values disagree.
reaction label 43: n[multiplicity:'3'] + U238 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -10898958.22720337 eV vs -1.07371e7 eV!

6. Energy range of data set does not match cross section range
reaction label 43: n[multiplicity:'3'] + U238 / Product: U238 / Distribution: / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (10782250.0 -> 30000000.0) vs (10782210.0 -> 30000000.0)

7. Calculated and tabulated Q values disagree.
reaction label 44: n[multiplicity:'4'] + U237 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -16536350.41375732 eV vs -1.68909e7 eV!

8. Energy range of data set does not match cross section range
reaction label 44: n[multiplicity:'4'] + U237 / Product: U237 / Distribution: / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (16961880.0 -> 30000000.0) vs (16961870.0 -> 30000000.0)

9. Calculated and tabulated Q values disagree.
reaction label 46: U241 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 4598169.770080566 eV vs 4.5841e6 eV!

10. Energy range of data set does not match cross section range
production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (599000.0 -> 30000000.0) vs (1e-05 -> 30000000.0)

11. Energy range of data set does not match cross section range
production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (599000.0 -> 30000000.0) vs (1e-05 -> 30000000.0)

12. Energy range of data set does not match cross section range
production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)

- WARNING: Domain doesn't match the cross section domain: (309200.0 -> 600000.0) vs (1e-05 -> 30000000.0)
13. Energy range of data set does not match cross section range
*production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma__a
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (309200.0 -> 600000.0) vs (1e-05 -> 30000000.0)

 14. Energy range of data set does not match cross section range
*production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma__b
/ Multiplicity: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (149000.0 -> 600000.0) vs (1e-05 -> 30000000.0)

 15. Energy range of data set does not match cross section range
*production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma__b
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (149000.0 -> 600000.0) vs (1e-05 -> 30000000.0)

 16. Energy range of data set does not match cross section range
*production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma__c
/ Multiplicity: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (1e-05 -> 600000.0) vs (1e-05 -> 30000000.0)

 17. Energy range of data set does not match cross section range
*production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma__c
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (1e-05 -> 600000.0) vs (1e-05 -> 30000000.0)

 18. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 4: nonelastic total gamma multiplicity (Error # 0): summedMultiplicityMismatch

WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 0.11%

 19. Energy range of data set does not match cross section range
*fissionComponent label 1: /reactionSuite/fissionComponents/fissionComponent[@label='1']
/ Product: n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (1e-05 -> 30000000.0) vs (1400000.0 -> 30000000.0)

 20. Energy range of data set does not match cross section range
*fissionComponent label 2: /reactionSuite/fissionComponents/fissionComponent[@label='2']
/ Product: n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (1e-05 -> 30000000.0) vs (10000000.0 -> 30000000.0)

 21. Energy range of data set does not match cross section range
*fissionComponent label 3: /reactionSuite/fissionComponents/fissionComponent[@label='3']
/ Product: n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (1e-05 -> 30000000.0) vs (14400000.0 -> 30000000.0)

• njoy2012 Warnings:

1. If MT=19 is present, MT=18 will be ignored.
heatr...prompt kerma (0): HEATR/hinit (2)

---message from hinit---mt18 is redundant
19, 20, 21, ... will be used.

2. There is a problem with the fission energy release.
heatr...prompt kerma (1): HEATR/nheat (3)

---message from nheat---changed q from 1.980600E+08 to 1.813300E+08
for mt 19

3. There is a problem with the fission energy release.
heatr...prompt kerma (2): HEATR/nheat (3)

---message from nheat---changed q from 1.980600E+08 to 1.813300E+08
for mt 20

4. There is a problem with the fission energy release.
heatr...prompt kerma (3): HEATR/nheat (3)

---message from nheat---changed q from 1.980600E+08 to 1.813300E+08
for mt 21

5. There is a problem with the fission energy release.
heatr...prompt kerma (4): HEATR/nheat (3)

---message from nheat---changed q from 1.980600E+08 to 1.813300E+08
for mt 38

• njoy2012 Errors:

1. An angular distribution is negative
acer...monte carlo neutron and photon data (0): Neg. P(Ejμ) (b)

---message from ptleg2---negative probs found
35 for mt= 51 e= 2.600E+07

2. An angular distribution is negative
acer...monte carlo neutron and photon data (1): Neg. P(Ejμ) (b)

---message from ptleg2---negative probs found
56 for mt= 51 e= 2.800E+07

3. An angular distribution is negative
acer...monte carlo neutron and photon data (2): Neg. P(Ejμ) (b)

---message from ptleg2---negative probs found
86 for mt= 51 e= 3.000E+07

4. An angular distribution is negative
acer...monte carlo neutron and photon data (3): Neg. P(Ejμ) (b)

```
---message from ptleg2---negative probs found
      4 for mt= 52 e= 3.000E+07
```

- `acelst` Warnings:

1. The incident energy grid is not monotonic for this angular distribution
0: Bad Ang. Dist.

```
ACELST WARNING - Processing Ang.Dist.MT      2
                  E-grid non-monotonic  1.000000000E+01 1.000000000E+01
```